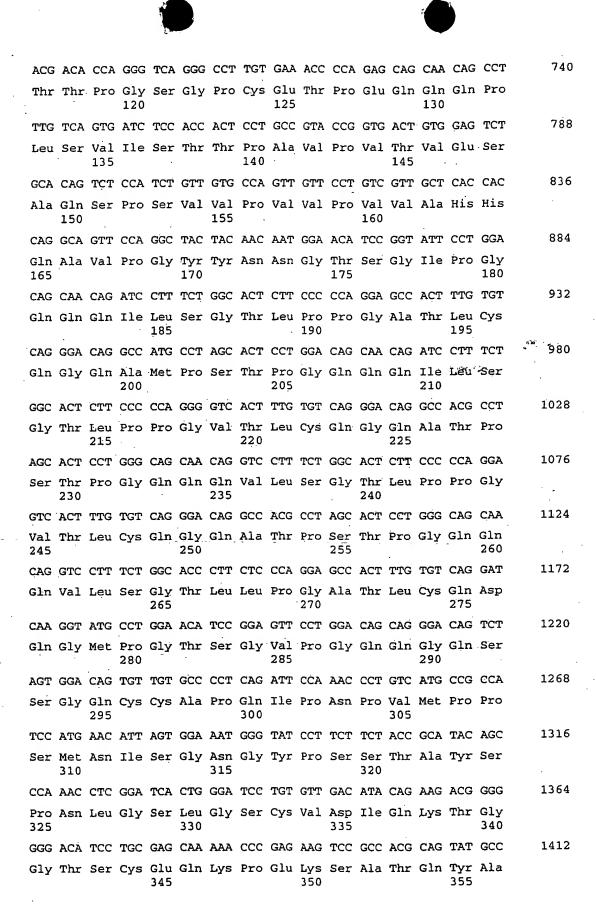
## SEQUENCE LISTING

- (1) GENERAL INFORMATION: (iii) NUMBER OF SEQUENCES: 5
- (2) INFORMATION FOR SEQ ID No: 1 (i) CHARACTERISTICS OF THE SEQUENCE:
- (A) LENGTH:
- (B) TYPE: nucleotide
- (C) NUMBER OF STRANDS: double
- (D) CONFIGURATION: linear
- (ii) TYPE OF MOLECULE: DNA (ix) CHARACTERISTICS
- (A) NAME/KEY:
- (xi) DESCRIPTION OF THE SEQUENCES: SEQ ID No: 1:

GAAT	TCAG	AT C	CCTC	ATAC	C TI	GGGA	AATT	AAA	ATTO	ATG	TTCA	TTTG	TT A	TATA	TCCTG	60
															GŤTCC	120
															STCCCT	180
TTCGGCTGTT TCACCAAGAT CCAATTATTC CTCCAGGACT TTCAACCCTC AGAATGGAAA														240		
															ACGGAG	300
															TTA 7	356
1110						<b>.</b>									/ Ile	
TCT	AAG	ATC	CTC	TCT	GCC	TCT	ATT	GCC	CTG	ATG	AAG	TTG	GAG	AAT	GTC	404
			Leu													
TAT	TCA	GCA	ACC	GCA	CTG	TGC	AGC	AAT	GCA	TAT	GGC	CTA	ACT	CCG	GGA	452
Tyr	Ser	Ala	Thr	Ala 25	Leu	Cys	Ser	Asn	Ala 30	Tyr	Gly	Leu	Thr	Pro 35	Gly	
CAA	CAG	GGT	ATG	GCT	CAG	CAG	CCG	TĊG	TAT	GTG	CTG	ATC	CCC	AGC	ACC	500
			Met 40													
CCG	GGA	ACC	ATA	GCA	AAC	TGT	GCA	AGC	GGT	TCA	CAG	GAC	ACA	TAT	TCT	548
			Ile													
CCT	TCT	CCC	GCT	GCA	CCC	ACA	TCT	CCA	GTG	ACT	CCG	GGG	AAA	ACT	AGC	596
			Ala													
GAG	AAT	GÁG	ACA	TCT	CCA	TCG	GCT	CCT	GCA	GAA	GAT	GTA	GGA	ACA	TGC	644
			Thr													
AAG	ATT	GCC	GTA	TTG	AAG	CAC	TGC	GAC	GCA	CCA	GGA	ACA	ACA	TCA	GGG	692
			Val												Gly	





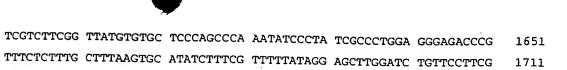
ACC ACC ACC ACC	1460
ATG GAG GCC TGT GCA ACA CCA ACA CCA ACG GTT ATT ATA GGC AAC AGC	
Met Glu Ala Cys Ala Thr Pro Thr Pro Thr Val Ile Ile Gly Asn Ser 360 365 370	
GAG TAT CTT GTT GGA CCA GGA ATG TAC AAT GCA ATT AAC TCT CCA TGC	1508
Glu Tyr Leu Val Gly Pro Gly Met Tyr Asn Ala Ile Asn Ser Pro Cys 375 380 385	
AAC ACT GCT GTC CAA TGC TGC TAG GCTAAAATAA AACGAGTTTA ATCTTCTTTT	1562
Asn Thr Ala Val Gln Cys Cys 390 395	
TCTTCGGTCT TTTGGAACGT TGGATGGGGA TGGAGGAGTC TATGGGCTGA AGTGAAATGC	1622
CAACACTTCT TCTGCCCAAG AACACATTCG GATGTTCTTC CTGTGGCCAG GAGTTTGGTA	1682
ACAGGATTCC CCGAGGATTT AGCAGCCTTG GAGTACCATG ATTGAATCAG TATTAAACTT	1742
ACAGGATTCC CCGAGGATTI AGCAGCCITO GNOTHOUTH TOTAL ALCOCALCA ATTCCCTCGA	1802
CTCAAATTAT TTTATTCTTT CTGTTTTATA TCCCGAGCCA ATCTGAGAAG AATGCCTCGA	1830
ATTCAAGCTC CCTTAGAAGT GTGGGATC	1000

- (2) INFORMATION FOR SEQ ID No: 2
  (i) CHARACTERISTICS OF THE SEQUENCE:
  (A) LENGTH:
  (B) TYPE: nucleotide
  (C) NUMBER OF STRANDS: double
  (D) CONFIGURATION: linear
  (ii) TYPE OF MOLECULE: DNA
  (ix) CHARACTERISTICS
  (A) NAME/KEY:

- (A) NAME/KEY: (xi) DESCRIPTION OF THE SEQUENCES: SEQ ID No: 2:

AAGCTTCTGA ACAAGCGCTA ACCCTCTTTC AGAATATATA AAGCAATCCA TACAACTTCT	60
CCATCCATCC CGGTGCTGTT TCTTTGGAGG CAAAACAGAG GAGGTGGCGA TATCGATGGT	120
GCATCCATAA TATATACAAG ACACTCCAGG CTGCAACTGA ATCAACACAC TCCATCCCCT	180
CAGGAAGTCG GTAAACTTGC CTTGAAAATA GCCAATGGAT GTCTCCAGGC TTTATACCAT	240
GCACAGCTAT ATCTTGGCCT GAAGTGCACT TTCAGGTGGG GCTTTGTTAC ATTGCGGTGT	300
TTTGGATTAC CTGATATAAT TTGTTACCCA CTGAGTCAAG TCGAAACCAG TAGTCCGCAG	360
ATTTCTAACA GAGAGGAAAG ACTGGAGGTA ATTTGTGGCT TTTGAAACAT GCACAGCAAA	420
ATAAAATATA AAAGAAGCCT TTTGCACACT ACCAAAG ATG TTG TTA CTT CTC GCC	475
Met Leu Leu Leu Ala 1 5	
ATA ACT GCT GTT GTT AGC GCC ACG ATG GTC CAT CCT TCA GCT GTT GTT	523
Ile Thr Ala Val Val Ser Ala Thr Met Val His Pro Ser Ala Val Val 10 15 20	
CCA CAG CCC GCA GCA CCT CTC CAT GTC GTT CCC CCA CAG CAG CAA ATG	571
Pro Gln Pro Ala Ala Pro Leu His Val Val Pro Pro Gln Gln Gln Met 25 30 35	
GGC ATG GTT AAC GGA TGC ACC AGC AAG AAA CTA GAG GGT GCA GAA ATA	619
Gly Met Val Asn Gly Cys Thr Ser Lys Lys Leu Glu Gly Ala Glu Ile 40 45 50	

ATG	AGA	ĄGG	AAC	ATG	ATT	GAG	TGC	CAG	AAA	AGA	AGC	TCG	GAG	GCA	ACA	667
Met 55	Arg	Arg	Asn	Met	Ile 60	Glu	Cys	Gln	Lys	Arg 65	Ser	Ser	Glu	Ala	Thr 70	
AAG	GCG	ATG	ATT	GAA	AGG	GCA	ААТ	GAA	AAG	GCT	GTA	GAA	TCA	TTC	AAC	715
Lys	Ala	Met	Ile	Glu 75	Arg	Ala	Asn	Glu	Lys 80	Ala	Val	Glu	Ser	Phe 85	Asn	,
AAG	GAA	GTT	AGC	AAA	GĠA	CCT	AGC	CAA	AAG	GAT	GGA	GGC	CAG	TGC	ATA	763
Lys	Glu	Val	Ser 90	Lys	Gly	Pro	Ser	Gln 95	Lys	Asp	Gly	Gly	Gln 100	Cys	Ile	
GAA	AAA	GCT	GTA	CAA	GGT	ACC	GAT	AGG	TGT	ATT	CTC	GCT	GGA	ATA	ATC	811
Glu	Lys	Ala 105	Val	Gln	Gly	Thr	Asp 110	Arg	Cys	Ile	Leu	Ala 115	Gly	Ile	Ile	
GAT	AAG	GCG	GTG	AAC	AAG	CGC	AAG	TAC	AGA	ATC	TCA	GAT	GTG	GAG	AAC	859
Asp	Lys 120	Ala	Val	Asn	Lys	Arg 125	Lys	Tyr	Arg	Ile	Ser 130	Asp	Val	Glu	Asn	
AGC	ACC	TCG	CTC	TAC	AGA	GGA	GAC	AAG	CTA	ATT	GCC	CTA	ATT	GTC	TAA	907
Ser 135	Thr	Ser	Leu	Tyr	Arg 140	Gly	Asp	Lys	Leu	11e 145	Ala	Leu	Ile	Val*	Asn 150	ajar .
GTC	GAC	TAT	GGG	CTG	CAG	CCG	ATC.	ACT	AAG	CCA	AAG	AAG	AÀG	AAG	TCC	955
Val	Asp	Tyr	Gly	Leu 155	Gln	Pro	Ile	Thr	Lys 160	Pro	Lys	Lys	Lys	Lys 165	Ser	
AAG	ATA	ATG	GCG	AAT	CTC	CCT	CAG	CĆG	AAG	ÀGA	GAG	ATG	TAT	TTC	AAC	1003
Lys	Ile	Met	Ala 170	Asn	Leu	Pro	Gln	Pro 175	Lys	Arg	Glu	Met	Tyr 180	Phe	Asn	
CAA	ATC	GGT	CAG	CTT	GTT	GGA	GCA	AGA	GGA	ACG	TTC	CCC	CAG	GAA	AAC	1051
Gln	Ile	Gly 185	Gln	Leu	Val	Gly	Ala 190	Arg	Gly	Thr	Phe	Pro 195	Gln	Glu	Asn	
AAG	GAG	GAC	TGC	AAG	CCT	TGT	GAG ·	GGT	CCC	AAG	AAG	ACT	GTT	GAA	ACT	1099
	200		Суѕ	•		205					210					
ACT														•		1147
215			Lys	•	220			·		225					230. <sup>°</sup>	
CTG												•				1195
Leu				235					240		-	_		245	•	
GGG																1243
Gly	Glu	Lys	Ser 250	Ala	Ser	Gln	Asp	Ser 255	Asp	Gly	Glu	Gly	Thr 260	Ala	Glu	
GAT	GCG	GAA	GTA	CAG	CAA	CCT	TCT	GCG	GAC	GGC	GAG	GGT	CTA	GAG	TAA	1291
Asp		Glu 265	Val	Gln	Gln	Pro	Ser 270	Ala	Asp	Gly	Glu	Gly 275	Leu	Glu 277		
TTTTTAAATT AAAATCTCCC TGGATTGAAT CTTCAAGTGC TTTTGTGAAA GACTTTGGGA ACATTTCGTG AAGGCTAACA TAAATTGTTA ATCTCAGGTC ACTCGATGGA ATAGTCAATT																
													•			
CGTA	TTTC	CT I	TCCT	TGGA	T GG	TCTG	cccc	ACC	AGCC	TGT	TCCT	'GGÇA	GT 1	ATCG	CATC	1471
TCGA	CAGA	GT C	AAAC	TGAA	C GA	ATCC	TATA	CCI	TTGG	ACA	TCTT	CTTC	r AT	TGGT	CGTAC	1531
ACTATTACTA CCCGATAGTT CAGTATCTCA CTGATCCTCT										CCTTGAGAAG GTCTCTAACG					1591	



1740

(2) INFORMATION FOR SEQ ID No: 3

(i) CHARACTERISTICS OF THE SEQUENCE:

(A) LENGTH:

(B) TYPE: nucleotide

(C) NUMBER OF STRANDS: double

(D) CONFIGURATION: linear (ii) TYPE OF MOLECULE: DNA

TATCCCCTTG TCGGGCGCTC CACCTCGAG

(ix) CHARACTERISTICS

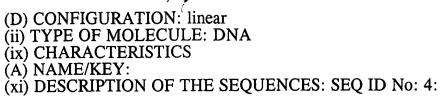
(A) NAME/KEY:

(xi) DESCRIPTION OF THE SEQUENCES: SEQ ID No: 3:

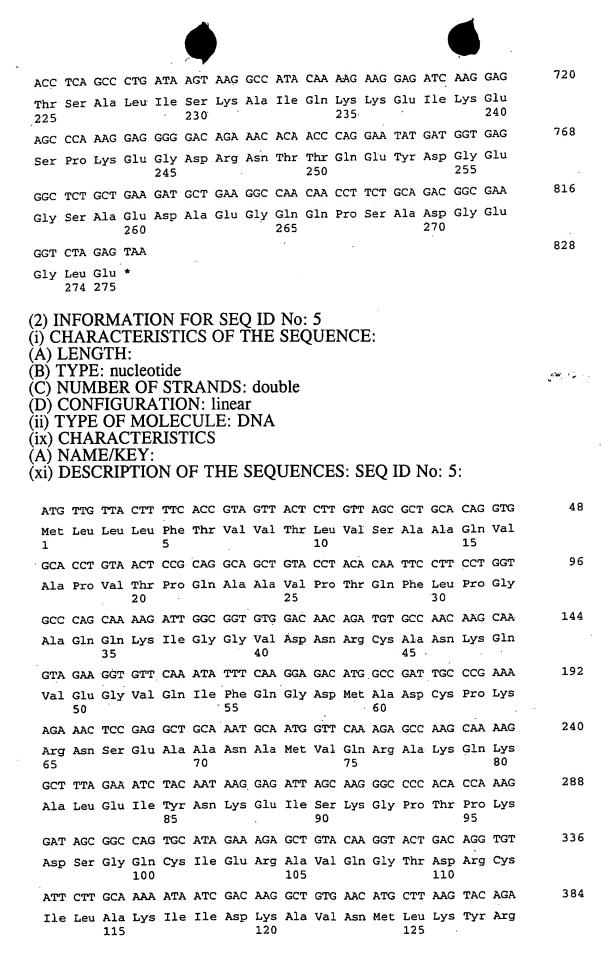
Leu Lys Gly Val Tyr Ser Thr Thr Val Leu Cys Gly Asp Ser Thr Gln 25	ATG	AAA	GGT	ATT	TCT	AAG	GTT	CTC	TCA	GCC	TCT	TTA '	GTC	CTA	ATG	AAG	48
Leu Lys Gly Val Tyr Ser Thr Thr Val Leu Cys Gly Asp Ser Thr Gln 20   25   25   25   27   27   27   27   27		Lys	Gly	Ile		Lys	Val	Leu	Ser		Ser	Ile	Val	Leu		Lys	
GGA CTG CAG GGC ACA ACC CAA CCG TCA TAT GTG CTG GTT CCT AGT GCA 1  Gly Leu Gln Gly Thr Thr Gln Pro Ser Tyr Val Leu Val Pro Ser Ala 35  CCA GAG ACA ATA GCC AAC TGT GGA TAC AGT CCA CAG AAC ATG TAT GTC 1  Pro Glu Thr Ile Ala Asn Cys Gly Tyr Ser Pro Gln Asn Met Tyr Val 60  CCT TCT ACT CCT ACT ACC ATG CCT TCC ACA GTG CCA GGC ACA ACT GGT 2  Pro Ser Thr Pro Thr Thr Met Pro Ser Thr Val Pro Gly Thr Thr Gly 80  GAG AGC GAG ACA CCT ACT TCC ACA ACA TCA TCT CCT ACA GAG GAT GTG 2  Glu Ser Glu Thr Pro Thr Ser Pro Thr Ser Ser Pro Thr Glu Asp Val 85  GGA ACA TGC AAG ATT GCT GTT GTA AAG CAT TGT GAT GCA CCA GGA ACA 33  GGA ACA TGC AAG ATT GCT GTA AAG CAT TGT GAT GCA CCA GGA ACA 33  GGA ACA TGC AAG ATT GCT GTA AAG CAT TGT GAT GCA CCA GGA ACA 33  GGA ACA TGC AAG ATT GCT GTA AAG CAT TGT GAT GCA CCA GGA ACA 33  GGA ACA TGC AAG ATT GCT GTA AAG CAT TGT GAT GCA CCA GGA ACA 34  Gly Thr Cys Lys Ile Ala Val Val Lys His Cys Asp Ala Pro Gly Thr 110  TCA TCA ACA CCT TGC GAA CCG GAA CGA CGA ACT TTG GCC CCC TCT CAG CCA 34  Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 120  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG 45  Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	TTG	ÀAG	GGT	GTC	TAT	TCT	ACA	ACT	GTG	CTG	TGT	GGA	GAT	TCA	ACA	CAA	96
Car   Car	Leu	Lys	Gly		Tyr	Ser	Thr	Thr		Leu	Суз	Gly	Asp		Thr	Gln	
35	GGA	CTG	CAG	GGC	ACA	ACC	CAA	CCG	TCA	TAT	GTG	CTG	GTT	CCT	AGT	GCA ·	144
Pro   Glu   Thr   Ile   Ala   Asn   Cys   Gly   Tyr   Ser   Pro   Gln   Asn   Met   Tyr   Val	Gly	Leu		Gly	Thr	Thr	Gļn	Pro 40	Ser	Tyr	Val	Leu		Pro	Ser	Ala.	
50	CCA	GAG	ACA	ATA	GCC	ÁAC	TGT	GGA	TAC	AGT	CCA	CAG	AAC	ATĠ	TAT	GTC	192
Pro         Ser         Thr         Pro         Thr         Met         Pro         Ser         Thr         Val         Pro         Gly         Thr         Thr         Gly         80           GAG         AGC         GAG         ACA         CCT         ACT         TCT         CCA         ACA         TCT         CCT         ACA         GCT         GCT         ACA         TCT         CCT         ACA         ACA         ACA         TCT         CCT         ACA	Pro	Glu 50	Thr	Ile	Ala	Aşn		Gly	Tyr	Ser	Pro		Asn	Met	Tyr	Val	
GAG AGC GAG ACA CCT ACT TCT CCA ACA TCA TCT CCT ACA GAG GAT GTG  Glu Ser Glu Thr Pro Thr Ser Pro Thr Ser Ser Pro Thr Glu Asp Val 85  GGA ACA TGC AAG ATT GCT GTT GTA AAG CAT TGT GAT GCA CCA GGA ACA  Gly Thr Cys Lys Ile Ala Val Val Lys His Cys Asp Ala Pro Gly Thr 100  TCA TCA ACA CCT TGC GAA CCG GAA CAG ACT TTG GCC CCC TCT CAG CCA  Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 115  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG  Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	CCT	TCT	ACT	CCT	ACT	ACC	ATG	CCT	TCC	ACA	GTG	CCA	GGC	ACA	ACT	GGT	240
Glu Ser Glu Thr Pro Thr Ser Pro Thr Ser Pro Thr Ser Pro Thr Glu Asp Val 95  GGA ACA TGC AAG ATT GCT GTT GTA AAG CAT TGT GAT GCA CCA GGA ACA 3:  Gly Thr Cys Lys Ile Ala Val Val Lys His Cys Asp Ala Pro Gly Thr 110  TCA TCA ACA CCT TGC GAA CCG GAA CAG ACT TTG GCC CCC TCT CAG CCA 3:  Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 115  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG 48  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	Pro 65	Ser	Thr	Pro	Thr		Met	Pro	Ser	Thr		Pro	Gly	Thr	Thr		
GGA ACA TGC AAG ATT GCT GTT GTA AAG CAT TGT GAT GCA CCA GGA ACA Gly Thr Cys Lys Ile Ala Val Val Lys His Cys Asp Ala Pro Gly Thr 100  TCA TCA ACA CCT TGC GAA CCG GAA CAG ACT TTG GCC CCC TCT CAG CCA Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 115  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  135  140  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	GAG	AGC	GAG	ACA	CCT	ACT	TCT	CCA	ACA	TCA	TCT	CCT	ACA	GAG	GAT	GTG	288
Gly Thr Cys Lys Ile Ala Val Val Lys His Cys Asp Ala Pro Gly Thr 100  TCA TCA ACA CCT TGC GAA CCG GAA CAG ACT TTG GCC CCC TCT CAG CCA  Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 115  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG  Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	Glu	Ser	Glu	Thr		Thr	Ser	Pro	Thr.	Ser 90	Ser	Pro	Thr	Glu		Val	
TCA TCA ACA CCT TGC GAA CCG GAA CAG ACT TTG GCC CCC TCT CAG CCA  Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 115  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG  Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr  130  135  140  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	GGA	ACA	TGC	AAG	ATT	GCT	GTT	GTA	AAG	CAT	TGT	GAT	GCA	CCA	GGA	ACA	336
Ser Ser Thr Pro Cys Glu Pro Glu Gln Thr Leu Ala Pro Ser Gln Pro 125  GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG  Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	Gly	Thr	Суѕ		Ile	Ala	Val			His	Cys	Asp	Ala		Gly	Thr .	
GTA GCA GCT ACA ATT GCC ACA CCA CTG GTT GTT GCT TCT GTG CAG ACG Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130 135 140 CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	TCA	TCA	ACA	CCT	TGC	GAA	ÇCG	GAA	CAG	ACT	TTG	GCC	CCC	TCT	CAG	CCA	384
Val Ala Ala Thr Ile Ala Thr Pro Leu Val Val Ala Ser Val Gln Thr 130 135 140  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	Ser	Ser		Pro	Cys	Glu	Pro		Gln	Thr	Leu	Ala		Ser	Gln	Pro	
130 135 140  CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG  Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	GTA	GCA	GCT	ACA	ATT	GCC	ACA	CCA	CTG	GTT	GTT	GCT	TCT	GTG	CAG	ACG	432
CCG CAA GCA GCT GTT ACC ATC CTT ACT CCA AAG GCC GTC TCT GCC CAG Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln	Val	Ala	Ala	Thr	Ile	Ala	Thr	Pro	Leu	Val	Val	Ala	Ser	Val	Gln	Thr	
Pro Gln Ala Ala Val Thr Ile Leu Thr Pro Lys Ala Val Ser Ala Gln		130					135					140					
116	CCG	CAA	GCA	GCT	GTT	ACC	ATC	CTT	ACT	CCA	AAG	GCC	GTC	тст	GCC	CAG	480
	Pro 145	Gln	Ala	Ala	Val		Ile	Leu	Thr	Pro		Ala	Val	Ser	Ala		

					4											
				ATT			TTC							U	AAT	528
Pro	Ala	Thr	Ile	Ile 165	Ser	Pro	Phe	Asn	Gln 170	Ala	Pro	Gly	Tyr	Tyr 175	Asn	
AGT	GCA	ATT	CCC	GGG	CAA	ATA	CTT	ACA	GGT	AAT	GTT	CTC	TCT	CCA	AGT	576
Ser	Ala	Ile	Pro 180	Glý	Gln	Ile	Leu	Thr 185	Gly	Asn	Val	Leu	Ser 190	Pro	Ser	
				CAA												624
		195		Gln	•	÷	200					205				-4-
				GGC						•						672
	210			Gly		215			:		220					
				CAA												720
225				Gln	230					235					240	
				CCT												768
	_			Pro 245					250					255		n lo
				CCT												816
_			260	Pro		•		265					270			
				CCA												864
		275	•	Pro			280				٠.	285				0.10:
				GGG												912
Ile	Ser	Ser	Asn	Gly	Tyr		Ser	Ser	Thr	Ala		Ala	Pro	Thr	Leu	
	290					295	~~~	202	22.0		300	202	mc x	mcc.	TCC	960
				CCT												
305				Pro	310					315					320	1008
				AAG												1000
				Lys 325	•				330					335		1056
				ACT												1030
			340	Thr				345					350			1104
				AAT												1104
Pro	Gly	Met 355		Așn	Ser	Leu	Asn 360	Ser	Pro	Cys	Asn	A1a 365	cys	cys	GIII	1116
CAA	CAA	TGC	TAG												•	1116
Gln	Gln 370	Cys 371														

(2) INFORMATION FOR SEQ ID No: 4
(i) CHARACTERISTICS OF THE SEQUENCE:
(A) LENGTH:
(B) TYPE: nucleotide
(C) NUMBER OF STRANDS: double



ATG	TTG	TTA	CTT	CTC	TCA	GCA	GTT	GCT	TTT	GTT	AGC	GCT	ACA	GCA	GTC		48
Met 1	Leu	Leu	Leu	Leu 5	Ser	Ala	Val	Ala	Phe 10	Val	Ser	Ala	Thr	Ala 15	Val		
CAG	TCA	GGT	GTT	GTC	TCC	CAG	CCT	ACA	ACA	CCC	ATT	CCG	ATT	CTT	CCT		96
Gln	Ser	Gly	Val 20	Val	Ser	Ģln	Pro	Thr 25	Thr	Pro	Ile	Pro	Ile 30	Leu	Pro		
GGA	CAG	CCG	ATG	GGG	GGC	ATG	GCC	AAC	GGG	TGC	ACT	AÁC	AAG	AAA	CTA	1	44
Gly	Glņ	Pro 35	Met	Gly	Gly	Met	Ala 40	Asn	Gly	Суѕ	Thr	Asn 45	Lys	Lys	Leu		
GAT	GGT	GTT	GAA	ATA	ATG	AGA	AGG	AAC	ATG	GTG	GAA	TGC	CAG	AAG	AGA	1	92
Asp	Gly 50	Val	Glu	Ile	Met	Arg 55	Arg	Asn	Met	Val	Glu 60	Cys	Gln	Lys	Arg		lo .
AAT	GCA	GAG	GCA	ACA	AAA	GCA	ATĢ	GTT	GAA	AGG	GÇT	AAT	GAA	AAG	GCT	2	40
Asn 65	Ala	Glu	Ala	Thr	Lys 70	Ala	Met	Val	Glu	Arg 75	Ala	Asn	Ğlu	Lys	Ala 80		
GTA	GAA	ACA	TTC	AAT	AAG	GAG	GTC	AGT	AAA	GGA	CCT	CAA	AAG	GAA	AGC	2	88
Val	Glu	Thr	Phe	Asn 85	Lys	Glu	Val	Ser	Lys 90	Gly	Pro	Gln	Lys	Glu 95	Ser		
			ATA													3	36
Gly	Gln	Cys	Ile 100	Glu	Lys	Ala	Val	Gln 105	Gly	Thr	Asp	Arg	Cys 110	Ile	Leu		
GCA	GGA	ATA	ATT	GAT	AAG	GCT	GTG	AAC	AAG	CGT	AAG	TAC.	AGA	ATC	TCG	3	84
Ala	Gly	Ile 115	Ile	Asp	Lys	Ala	Val 120	Asn	Lys	Arg	Lys	Tyr 125	Arg	Ile	Ser		
			AAT					-								. 4	32
Asp	Val 130	Ģlu	Asn	Ser	Thr	Ser 135	Leu	Tyr	Arg	Gly	Asp 140	Lys	Leu	Ile	Ala		
CTA	ATT	GTC	AAT	GTT	GAC	TAT	GGA	CTT	CAG	CCA	ATT	ATC	AAA	CCA	AAG	4	80
Leu 145	Ile	Val	Asn	Val	Asp 150	Tyr	Gly	Leu	Gln	Pro 155	Ile	Ile	Lys	Pro	Lys 160		
			TCC													. 5	28
Lys	Lys	Lys	Ser	Lys 165	Ile	Met	Ala	Asn	Leu 170	Pro	Gln	Pro	Lys	Arg 175	Glu		
ATG	TAT	TTC	AAC	CAG	ATC	GGA	CAG	CTT	GTT	GGA	GCA	AAG	GGA	ACA	TTC	5	76
Met	Tyr	Phe	Asn 180	Gln	Ile	Gly	Gln	Leu 185	Val	Gly	Ala	Lys	Gly 190	Thr	Phe		
CCT	CAA	GAC	AAC	AAG	GAT	GAA	TGC	AAG	CCA	TGC	GAA	CCT	AAG	AAG	ACT	6	24
Pro	Gln	Asp 195	Asn	Lys	Asp	Glu	Cys 200	Lys	Pro	Cys	Glu	Pro 205	Lys	Lys	Thr		
GTT	GAA	ACT	GCT	TCT	GAA	AGA	TGT	AAT	CTT	GGG	TGC	GAG	CTT	AAG	GGA	. 6	72
Val	Glu 210		Ala	Ser	Glu	Arg 215	Cys	Asn	Leu	Gly	Суs 220	Glu	Leu	Lys	Gly		







ATC	TCA	AAG	GTA	GGA	AAT	GCT	ACA	GCA	CTC	TTC	AGA	GGA	AAC	AAG	CTA	432	
Ile	Ser 130	Lys	Val	Gly	Asn	Ala 135	Thr	Ala	Leu	Phe	Arg 140	Gly	Asn	Lys	Leu		
ATT	TCT	CTA	ATT	CTT	AAT	GTT	ĢAT	TAT	GGA	CTT	AAG	CCA	TTC	TŤT	ACT	480	
Ile 145	Ser	Leu	Ile	Leu	Asn 150	Val	Asp	Tyr	Gly	Leu 155	Lys	Pro	Phe	Phe	Thr 160		
GTT	GTA	AAG	AAG	AAA	ACA	AAG	AGA	GTG	TTC	CCC	CAA	GGG	GAT	GAG	CTG	528	
Val	Val	Lys	Lys	Lys 165	Thr	Lys	Arg	Val	Phe 170	Pro	Gln	Gly	Asp	Glu 175	Leu		
AAC	TTC	AAT	GGA	TTA	GGT	CAG	CTT	ATA	GGA	GTA	AAA	GGC	ACA	TTC	CCT	576	
Asn	Phe	Asn	Gly 180	Ile :	Gly	Gln	Leú	Ile 185	Gly	Val	Lys	Gly	Thr 190	Phe	Pro		
CAA	GAC	AAT	AAT	GAT	GAA	TGC	AAG	CCG	TGT	GAC	TCT	CCA	AAG	AAG	ACT	624	
Gln	Asp	Asn 195	Asn	Asp	Glu	Cys	Lys 200	Pro	Cys	qaA	Ser	Pro 205	Lys	Lys	Thr	aller 1 per	
GTT	GAG	ACT	GTT	GCŢ	GAG	GAA	TGT	AAT	CTT	GGG	TGÇ	CÁG	CTT	AAG	GGG	672	
Val	Glu 210	Thr	Val	Ala	Glu	Glu 215	CÀ2	Asn	Leu	Gly	Cys 220	Gln	Leu	Ĺýs	Gly		
ACG	CCT	GGG	TTG	ATA	AGC	AGA	GCC	ATA	CAA	AAG	AAG	GAG	GTC	AAG	GAA	720	
Thr 225	Pro	Gly	Leu		Ser 230	Arg	Ala	Ile	Gln	Lys 235	Lys	Glu	Val	Lys	Glu 240		
AGC	TCA	AAG	GAC	GGA	GAA	AAA	AGC	ŤCA	ACC	CAG	AAC	GGC	GAA	GGC	ACC	768	
Ser	Ser	Lys	, –	Gly 245	Glu	Lys	Ser	Ser	Thr 250	Gln	Asn	Gly	Glu	Gly 255	Thr		
ACC	GAT	GAT	GAA	GAT	GGA	CAG	CAA	TCT	CCG	GAC	GGT	AAT .	GGA	CCA	GAG	816	
Thr	Asp	Asp	Glu 260	Asp	Gly	Gln	Gln.	Ser 265	Pro	Asp	Gly	Asņ	Gly 270	Pro	Glu 272		
TAA										•			•			81.9	